

**NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Bailleul et al. PF-0111-3 CON**

5'	10	19	28	37	46	55
	TCT	GGC	TTG	GGC	AGG	CAC
	CCC	AGT	TCC	GGG	CGG	GGC
	M	A	G	V	K	A
64	73	82	91	100	109	118
CCC	AGT	TCC	GGG	CGA	TCA	TTA
	CGC	ATG	CGG	GGC	TGA	TCC
	M	A	G	V	K	S
	117	127	136	145	154	163
GGG	GCT	ATT	GGA	CTG	ACT	TTT
G	A	I	G	L	T	F
	172	181	190	199	208	217
GTT	TAC	TGG	CCC	TTA	TTC	GTC
V	Y	W	P	L	F	V
	226	235	244	253	262	271
TTC	ATT	GGC	AAA	AGA	GTC	ACC
F	I	A	K	R	V	T
	280	289	298	307	316	325
GAA	CTG	GCA	TAT	TTC	ACT	ACT
E	L	A	Y	F	T	T
	334	343	352	361	370	379
GTT	ATT	CTT	GCT	CGT	GTG	GCT
V	I	L	A	R	V	A
	388	397	406	415	424	433
GCA	GGC	AAT	GCA	GTC	ATT	TTC
A	G	N	A	V	I	F
	442	451	460	469	478	487
AGA	CGA	GAT	GAT	TTT	AGC	TGG
R	G	D	D	F	S	W
	496	505	514	523	532	541
CAT	TGA	ATT	TCT	TAG	AAC	TCA
	550	559	568	577	586	595
TAC	TAT	GAA	ATT	TAA	TAT	GCT
	604	613	622	631	640	649
TTT	AAG	AAA	GAC	TTC	ATA	AGT
	658	667	676	685	694	703
GTC	AAA	TTT	AGA	TTA	TGT	TAC

FIGURE 1A

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Baillien et al. PF-0111-3 CON

712 721 730 739 748 757
GTC ACG GTG CTC TCA GAA AAT ATA TTA ACG CAG TCT TGT AGG CAG CTG CCA CCT

766 775 784 793 802 811
TAT GCA GTG CAT CGA AAC CTT TTG CTT GGG GAT GTG CTT GGA GAG GCA GAT AAC

820 829 838 847 856 865
GCT GAA GCA GGC CTC TCA TGA CCC AGG AAG GCC GGG GTG GWT CCC TCT TTK TTT

874
TGT AGT CCA

FIGURE 1B

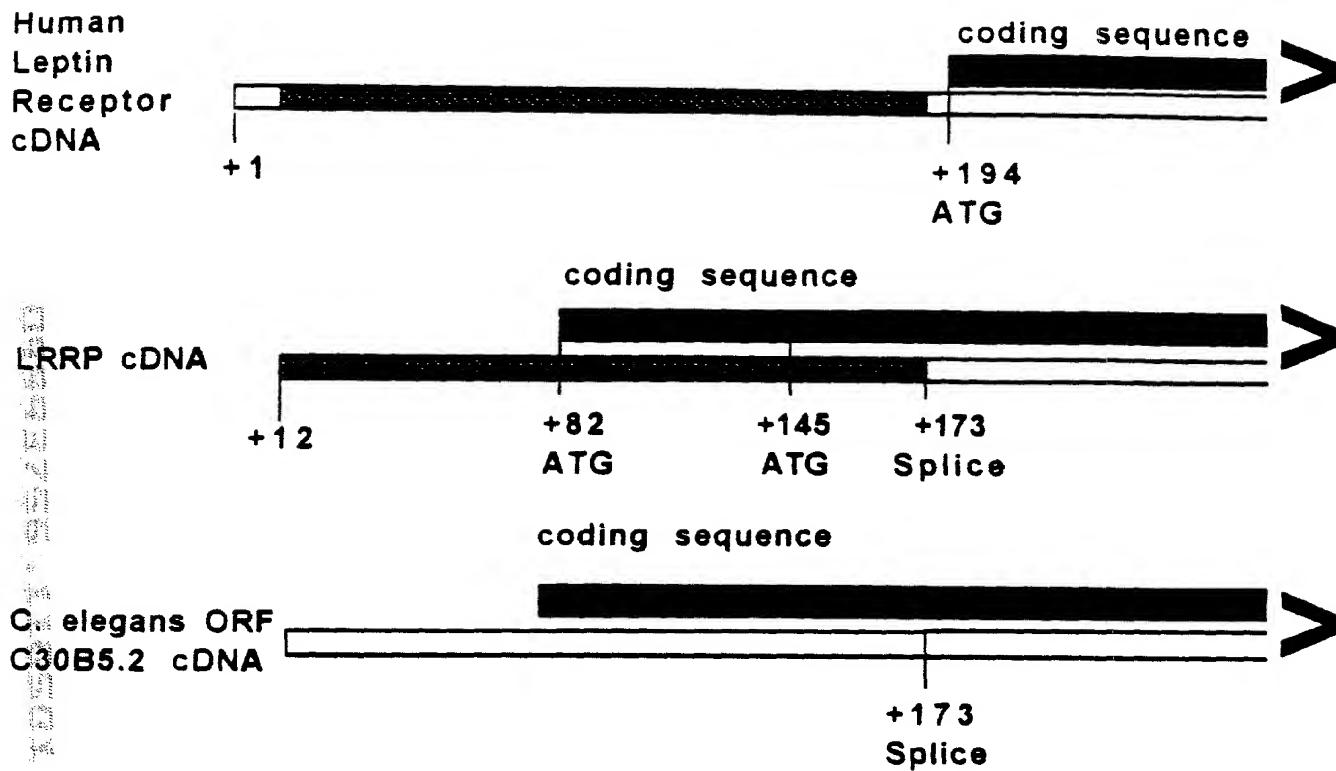
NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Bailey et al. PF-0111-3 CON

The Electronic Northern for Clone: 492703
and Stringency >= 50

Library	Lb Description	Abun	Pct Abun
RATRNC01	heart, right atrium, 51 F	1	0.0361
SYNCRAB01	synovium, hip, rheumatoid, 68 F	4	0.0779
LIVRNOM01	liver, 49 M, WM	1	0.0254
PLACNCB01	placenta, neonatal F	1	0.0225
BRSTNOT01	breast, 56 F	1	0.0192
HNT2AGT01	nNT-2 cell line, post-mitotic neurons	1	0.0190
HNT2NCT01	nNT-2 cell line, teratocarcinoma, control	1	0.0172
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	1	0.0148
COLNFET02	colon, fetal F	1	0.0142
UCMC15T01	lymphocytes (umbilical cord), treated IL-5	1	0.0125
MELANOM01	melanocytes, M, NORM, WM	1	0.0108
PLACNCM02	placenta, neonatal F, NORM, WM	1	0.0056

FIGURE 2

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Baileul et al. PF-0111-3 CON



* Numbering relative to human leptin receptor

Hatched area represents identical sequences

FIGURE 3

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Bailleul et al. PF-0111-3 CON

1 M - - - - - - - - - - A G V K A L V A L S F S G A SEQ ID NC-1
2 M C C H I H I Q C F D C C S M K N T I I A V A A L A F A G V SEQ ID NC-3
3 M - - - - - M E F K V S P L T K I I - - - - S L S G F SEQ ID NC-4

16 I G L T F L M - - L G C A L E D Y G V Y W P L F V L I F H G SEQ ID NC-1
31 V G L T F L V - - L G C A L P R Y G T W T P M F V I T F Y V SEQ ID NC-3
19 L A I G F L L V I I S C A L - - F H N Y Y P L E D I L I F L SEQ ID NC-4

44 I S P I P H F I A K R V T - Y D S D - - A T S S - A C R E SEQ ID NC-1
59 L S P V P L L I A R R - - F Q E D - - M T G T N A C I E SEQ ID NC-3
47 I A P I P N T I F N A G N K Y H T S D F M S D S S N T G Q D SEQ ID NC-4

69 L A Y F F T T G I V V V S A F G E P V I L A R V A V I K W G A SEQ ID NC-1
83 L A L F I T T G I V I V S A F A L P I V I L A H A G T I I A M S A SEQ ID NC-3
77 L A H F L T G M L V T S G I A L P V V F Y H C Q L I G H L S SEQ ID NC-4

99 C G L V L A G N A V I F L T I Q G F E L I F G R G D D F S W SEQ ID NC-1
113 C F L I F I A N S T I N F S V I I F Y E R I F N G E D M N G M SEQ ID NC-3
107 C I M C M I G G L I I Y S S I V I E K W F E K K D F N E D D SEQ ID NC-4

129 E Q W SEQ ID NC-1
143 S L W SEQ ID NC-3
137 S L F G SEQ ID NC-4

FIGURE 4

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Bailleul et al. PF-0111-3 CON

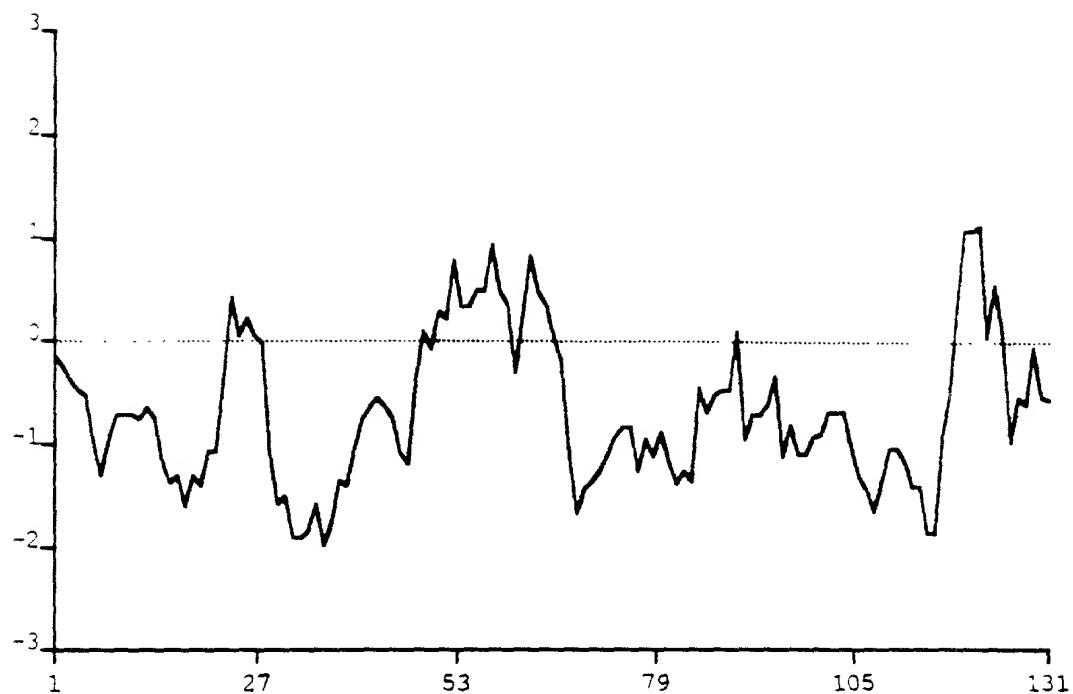


FIGURE 5

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Baileul et al. PF-0111-3 CON

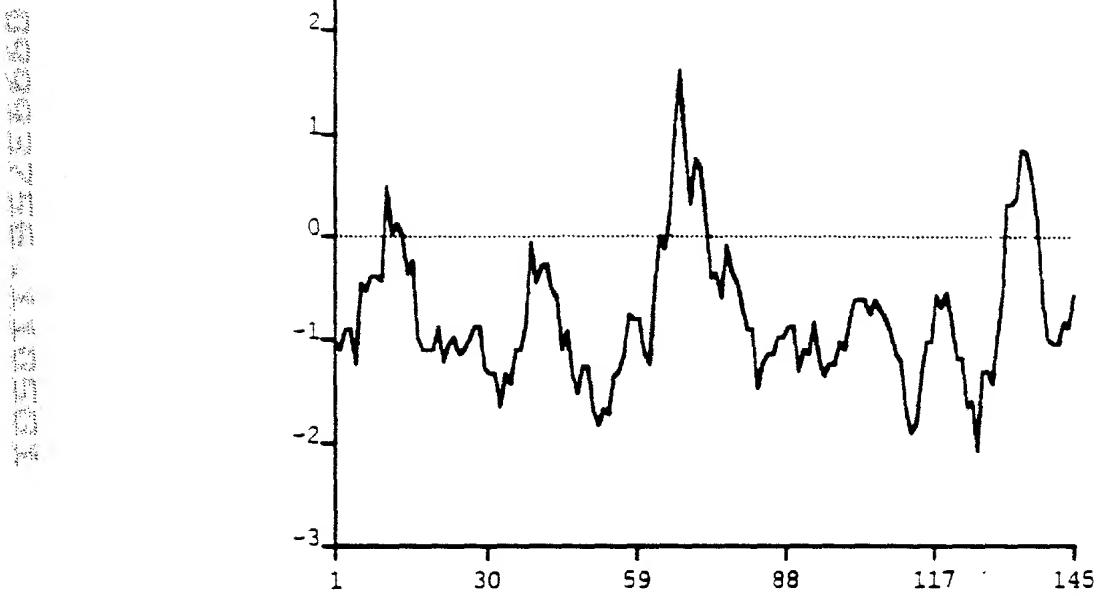
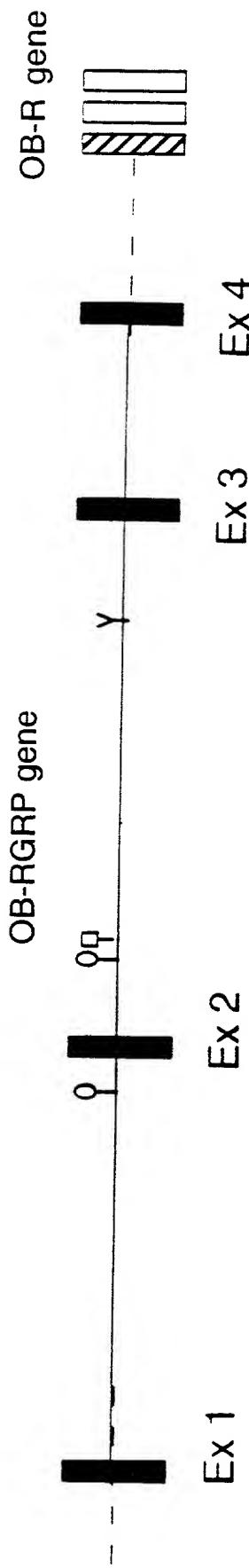


FIGURE 6

Human genomic organization of OB-RGRP



Exon/intron junctions of OB-RGRP gene

Metalaglyvallysa
ATGGCGGGCGT^TAAAGGtacatccgg

AlaLeuGluAspTyrG1
 $\text{GCGCTTAGGATTATGGGTaaGT}$

LeuAlaArgValAlaVal

INTRON 1

INTRON 2

INTRON 3

laLevalAlaLeUser

YVal Tyr Trp Pro Leu

IleLysTrpGlyAla

**NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN**
Bailleul et al. PF-0111-3 CON

FIGURE 7

NOVEL HUMAN LEPTIN
RECEPTOR GENE-
RELATED PROTEIN
Bailleul et al. PF-0111-3 CON

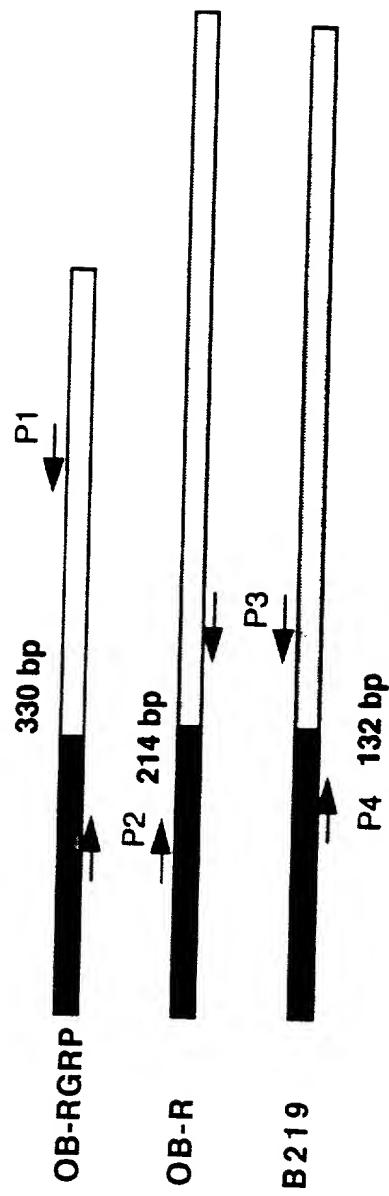


FIGURE 8

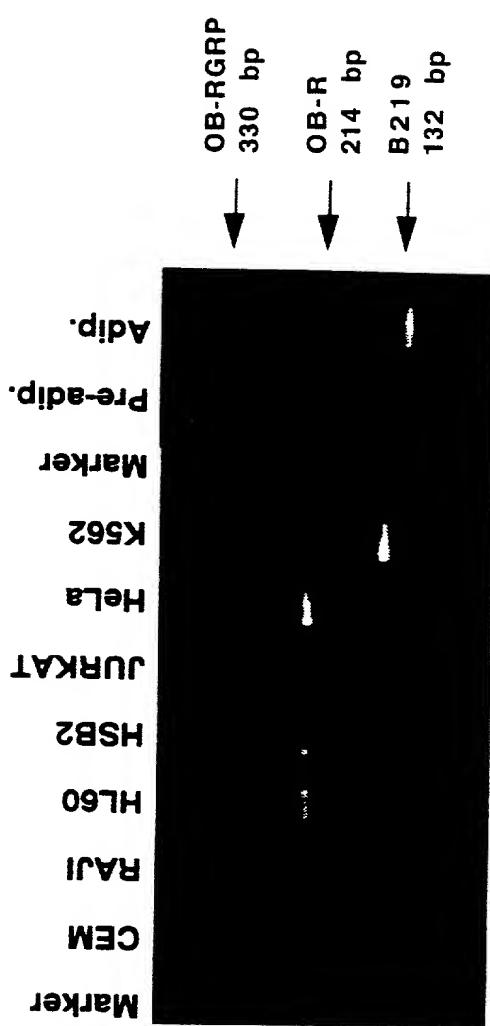


FIGURE 9